SEQUENCE LISTING

1

```
<110> Masure, Stefan
     Cik, Miroslav
     Hoefnagel, Evert
<120> Neurotrophic Factor Receptor
<130> 53202/001
<140> PCT/EP00/04918
<141> 2000-05-26
<150> GB 9915200.1
<151> 1999-05-29
<160> 31
<170> PatentIn Ver. 2.0
<210> 1
<211> 792
<212> DNA
<213> Mus musculus
<400> 1
gtgcgccgag cgccggcgcc agactttcgc gcccgcctgc gcgttctccg gcccggggtt 60
ggtgccgccc tcttgcctgg agcccctgga gcgctgcgag cgcagccgcc tgtgccggtg 120
cgtgcgtgcg gggcggcttg ggccgctcac ccgcgtccgg gcgcgcgcag gccccgtctc 180
cttgccttcc aggcctcatg cgctcccgcg cccggctccc gcgaccgctg cccggaggag 240
gggggcccgc gttgtctgcg cgtctacgca ggcctcatgg gcaccgtggt cacccccaac 300
tacctggaca acgtgagcgc gcgcgttgcg ccctggtgcg gctgtgcggc cagtggaaac 360
cggcgcgaag aatgcgaagc cttccgcaag ctctttacaa ggaacccctg cttgggtgag 420
ggggcctgga ggtcccgggg aaccacggat gtctgtggcc caatccaagc tgcctggccc 480
gtgggtctta tttacgtcgc atcatgtttg gtgtgggcga tggacaatgt gcacatgcca 540
tggtacgtgg gtggaagtca agcgttaaaa cgtgtccaat ggnctggaag ttggccttcc 600
ttttgacact natggggtgg gcctttcttc atggtgngcc caacttacct ttggttggtc 660
ttgnctctgg gtgggaatgg cttnaattnc agaattttgg gggtcttgtt tgaagcctgg 720
cttttgcnct taanaacttg anaagttaaa ctcttattaa tcccaatggg gttcacctgt 780
                                                                   792
aaagggagag gg
<210> 2
<211> 497
<212> DNA
<213> Mus musculus
<400> 2
gtggaaccgg cgcgaagaat gcgaaccttc cgcaagctct ttacaaggaa cccctgcttg 60
gatggtgcca tacaagcctt tgacagcttg cagccatcag ttctgcagga ccagactgct 120
gggtgctgtt tcccgcgggc aaggcacgag tggcctgaga agagctggag gcagaaacag 180
teettgtttt gteetaaege ecaaggtgte etggetgtat geacteaetg eeetggetet 240
ccaggccctg ctctgattag gaacatgaac cgtggacgac acagctgact gccatgtctc 300
ccgatgactg ctcactgagc tgaaactccc ttgccctcag gtctgctgcc ctttgcaggc 360
ctggacccct gtgtggctgt cctctggatt gggggctgga ggctagggtc tgactgaaaa 420
gcctgtgttc ccgtcagtag gcatcttgtc cattttcttc cccatcctag agctgagcac 480
                                                                   497
ccatagatga ggcctca
```

```
<210> 3
<211> 901
<212> DNA
<213> Rattus rattus
<400> 3
ggcaccgtgg tcacccccaa ctacctggac aacgtgagcg cgcgcgttgc gccctggtgc 60
ggctgtgagg ccagcggaaa ccggcgcgaa gagtgcgaag ccttccgcaa gctttttaca 120
aggaacccct gcttggatgg tgccatacaa gcctttgaca gctcgcaacc atcagttctg 180
caggaccagt ggaaccccta ccagaatgct gggtgctgtt tcctgtgggt gtcctcgatg 240
tccatactca ctgccctggc tctccaggcc ctgctctaat taggaaggtg aaccatggac 300
aacacagetg actgecatgt etetggatta tgeteactga actgaaacte cettgeeete 360
aggtctgctg tcctttgcag ttctggaccc ctgcatggct gtctcctgga ctgggagctg 420
gaggctaggg cccgactgtt aggttcccct gttagtaggc atctcgcctg ttttcttcac 480
catcettgag atgatggtag atgatattta gcacetgtag acagggeete attgggeece 540
ttgggcttac agagcagaac agagactagc ctcctgctct tagaattggg tagtgttctt 600
ttccaagaag acatggcact aaggcgatca tatgaacaga ctgacagact gcagtctaaa 660
tacccatgcc ccagggccag cgctgacctt gcttgtcacc tatgacatgg cgctgtgtag 720
ggattaaaga gagagattca ggtccctcct gctggacatc ccactggcct cccagactct 780
cccagcacct gcagtggcac agcagctcaa taaacccatg tgcactggaa aaaaaaaaa 840
901
<210> 4
<211> 872
<212> DNA
<213> Rattus rattus
<400> 4
gtatggggag aggatgtgga gttggcagtt tctcatcgtt cccttctgta tttacccttc 60
tcaggcaggc caaggtggag gcctgagtgg cctgagaaga gatggaggca gaaacggtcc 120
ccgttttgtc ccaaggtgtc ctcgatgtcc atactcactg ccctggctct ccaggccctg 180
ctctaattag gaaggtgaac catggacaac acagctgact gccatgtctc tggattatgc 240
tcactgaact gaaactccct tgccctcagg tctgctgtcc tttgcagttc tggacccctg 300
catggctgtc tcctggactg ggagctggag gctagggccc gactgttagg ttcccctgtt 360
agtaggcatc tcgcctgttt tcttcaccat ccttgagatg atggtagatg atatttagca 420
cctgtagaca gggcctcatt gggccccttg ggcttacaga gcagaacaga gactagcctc 480
ctgctcttag aattgggtag tgttcttttc caagaagaca tggcactaag gcgatcatat 540
gaacagactg acagactgca gtctaaatac ccatgcccca gggccagcgc tgaccttgct 600
tgtcacctat gacatggcgc tgtgtaggga ttaaagagag agattcaggt ccctcctgct 660
ggacatecea etggeetece agactetece ageacetgea gtggeacage ageteaataa 720
872
aaaaaaaaa aaaaaagaaa aaaaaaaaaa aa
<210> 5
<211> 2522
<212> DNA
<213> Rattus rattus
<400> 5
ctggtaagct ttaaggcaga ggagacctaa gagctgagac atgctatgtt gagtggagcg 60
tatttacggg tgctgaatga gaggccaggc caggcagttt tatggagtct tggatgccag 120
agaggtaagg aggtgggaaa ggaagtacta taaacctgaa tttggtgact tggctggatt 180
tgcatatgtc cagtgccaag ttcagacata gctgccgggt ttactgatgc tactctccca 240
aggtcaggca ttctattttc ccctgaatgg cttttcatct gtgacttatc tacatcttca 300
ctgaaactac tggtaaacgt ccaggtctgt ctcagggcga agtcctatgg tctgccatta 360
```

agcctcagtg tcctgtcagg tgaagctggg gaggatggaa ggggtccagt agacgctctg 420 tgatgcatgt gccagttctg gagatggtgg tggaggctga acctgagctt ctggggaacc 480 teegagtact geeteeatte aegaeetggg tggatateee taggaeetge eeatgeeege 540 ttcctcagga aaaacgggtc acgcctatgg gccacactct ctccccttgg gtttgggtat 600 ctgcccccag ccccgccaa attccggggt gtggaatgtg gagaaccaag cacagagggc 660 tgcagcctgc cctcccctca ccagggtcag cgagctccac tgaggggaat cgctgcgtgg 720 aagcagccga ggcgtgcaca gcagacgagc agtgccagca gctgcgctcc gagtacgtgg 780 cgcaatgcct gggccgggcg ggctggcggg gacccgggag ctgcgtgcgc tcccgctgcc 840 geogtgeect gegeegette ttegeeegeg ggeeteegge geteaegeae gegetgetet 900 tetgeggatg egaaggeece gegtgegeeg agegeeggeg ceagacatte gegeeegeet 960 gegegttete eggececcag etggegecae etteetgeet gaageeettg gaeegetgeg 1020 agcgaagccg ccggtgccgg tgcgtgcggg gcgggctggg ccgctcaccg gcgtccgggc 1080 gcgcgcaggc cccgtctctt tgccttccag gcctcatgcg ctcccgcgcc cggctcccgc 1140 gacggctgtc cggaggaggg gggcccgcgg tgtctgcgcg cctacgcagg ccttgtaggt 1200 acgctgggcg gcctctggcg ggcggggcgg cggaggcaga ttccggggggc ccgtcacagg 1260 tectgggggt ceetgeagge accgtggtea ceeceaacta eetggacaac gtgagegege 1320 gegttgegee etggtgegge tgtgaggeea geggaaaceg gegegaagag tgegaageet 1380 tccgcaagct ttttacaagg aacccctgct tgggtgaggg ggctggagag cccgggcaac 1440 caaggacgtc tatggcccag tctaggctgc ctggcctgtg gggaccctta aaatgttttc 1500 gtcgtgtcgt atttggtgtg ggtgatggac agtgtgcacg tgccatggtg catgggtgga 1560 agtcagagga caacttgtca gtctctttct accacgtggg tccccgggat agcactgggc 1620 tcatcagttt tggtggcaag tgcctttgcc tgctgagcca tcttgctggc tgatgtgagc 1680 acatttttga tggaaagaaa ctgaggtttc cagagaccag atagccgatc actagagaat 1740 tcgagagatg tcaagaatct cttagggcta gaaaggatga gttaaaacat gtccaatgac 1800 ctggagttgg ccaaggctcc ctttggcact actgaggtct tttcctccat gtgttcccaa 1860 tttaacgctg ctgttcttgc ctcgggatga aatagcgttg ttccagattt ctgggggccc 1920 ggtttgaagc ctgtctctgc cacttcgtag ccgagagtta aactcttatt aatcctaatt 1980 gtgttcacct gtaagggcgg ggtgtgcact tgtcaacctc actcttagca cagtgacctt 2040 ccatctcagg ccgtgccttg cagattccag ggggtgtctc attttgtctc aagggagtgg 2100 agctgtttct agggtttcct ggccaaacct tctctggatc tctccactcc atagatggtg 2160 ccatacaagc ctttgacagc tcgcaaccat cagttctgca ggaccagtgg aacccctacc 2220 agaatgctgg gtgctgtttc ctgtgggtag gtatggggag aggatgtgga gttggcagtt 2280 tctcatcgtt cccttctgta tttacccttc tcaggcaggc caaggtggag gcctgagtgg 2340 cctgagaaga gatggaggca gaaacggtcc ccgttttgtc ccaaggtgtc ctcgatgtcc 2400 atactcactg ccctggctct ccaggccctg ctctaattag gaaggtgaac catggacaac 2460 acagetgact gecatgtete tggattatge teactgaact gaaacteeet tgeeeteagg 2520 <210> 6 <211> 953 <212> DNA <213> Rattus rattus <400> 6 ctggtaagct ttaaggcaga ggagacctaa gagctgagac atgctatgtt gagtggagcg 60 tatttacggg tgctgaatga gaggccaggc caggcagttt tatggagtct tggatgccag 120 agagggtcag cgagctccac tgaggggaat cgctgcgtgg aagcagccga ggcgtgcaca 180 gcagacgagc agtgccagca gctgcgctcc gagtacgtgg cgcaatgcct gggccgggcg 240 ggctggcggg gacccgggag ctgcgtgcgc tcccgctgcc gccgtgccct gcgccgcttc 300 ttcgcccgcg ggcctccggc gctcacgcac gcgctgctct tctgcggatg cgaaggcccc 360 gcgtgcgccg agcgccggcg ccagacattc gcgcccgcct gcgcgttctc cggcccccag 420 ctggcgccac cttcctgcct gaagcccttg gaccgctgcg agcgaagccg ccggtgccgg 480 ccccgtctct ttgccttcca ggcctcatgc gctcccgcgc ccggctcccg cgacggctgt 540 ccggaggagg ggggcccgcg gtgtctgcgc gcctacgcag gccttgtagg caccgtggtc 600 acccccaact acctggacaa cgtgagcgcg cgcgttgcgc cctggtgcgg ctgtgaggcc 660 ageggaaace ggegegaaga gtgegaagee tteegeaage tttttacaag gaaceeetge 720 ttggatggtg ccatacaagc ctttgacagc tcgcaaccat cagttctgca ggaccagtgg 780

aacccctacc agaatgctgg gtgctgtttc ctgtgggtgt cctcgatgtc catactcact 840 gccctggctc tccaggccct gctctaatta ggaaggtgaa ccatggacaa cacagctgac 900 tgccatgtct ctggattatg ctcactgaac tgaaactccc ttgccctcag gtc <210> 7 <211> 1008 <212> DNA <213> Rattus rattus <400> 7 ctggtaagct ttaaggcaga ggagacctaa gagctgagac atgctatgtt gagtggagcg 60 tatttacggg tgctgaatga gaggccaggc caggcagttt tatggagtct tggatgccag 120 agagggtcag cgagctccac tgaggggaat cgctgcgtgg aagcagccga ggcgtgcaca 180 gcagacgagc agtgccagca gctgcgctcc gagtacgtgg cgcaatgcct gggccgggcg 240 ggctggcggg gacccgggag ctgcgtgcgc tcccgctgcc gccgtgccct gcgccgcttc 300 ttcgcccgcg ggcctccggc gctcacgcac gcgctgctct tctgcggatg cgaaggcccc 360 gegtgegeeg agegeeggeg ceagacatte gegeegeet gegegttete eggeeeceag 420 ctggcgccac cttcctgcct gaagcccttg gaccgctgcg agcgaagccg ccggtgccgg 480 ecceptetet ttgeetteca ggeeteatge getecegege eeggeteeeg egaeggetgt 540 ccggaggagg ggggcccgcg gtgtctgcgc gcctacgcag gccttgtagg caccgtggtc 600 accccaact acctggacaa cgtgagcgcg cgcgttgcgc cctggtgcgg ctgtgaggcc 660 agcggaaacc ggcgcgaaga gtgcgaagcc ttccgcaagc tttttacaag gaacccctgc 720 ttggatggtg ccatacaagc ctttgacagc tcgcaaccat cagttctgca ggaccagtgg 780 aacccctacc agaatgctgg gcaggccaag gtggaggcct gagtggcctg agaagagatg 840 gaggcagaaa cggtccccgt tttgtcccaa ggtgtcctcg atgtccatac tcactgccct 900 ggctctccag gccctgctct aattaggaag gtgaaccatg gacaacacag ctgactgcca 960 tgtctctgga ttatgctcac tgaactgaaa ctcccttgcc ctcaggtc <210> 8 <211> 273 <212> PRT <213> Rattus rattus <400> 8 Met Leu Ser Gly Ala Tyr Leu Arg Val Leu Asn Glu Arg Pro Gly Gln 10 Ala Val Leu Trp Ser Leu Gly Cys Gln Arg Gly Ser Ala Ser Ser Thr Glu Gly Asn Arg Cys Val Glu Ala Ala Glu Ala Cys Thr Ala Asp Glu Gln Cys Gln Gln Leu Arg Ser Glu Tyr Val Ala Gln Cys Leu Gly Arg Ala Gly Trp Arg Gly Pro Gly Ser Cys Val Arg Ser Arg Cys Arg Arg Ala Leu Arg Arg Phe Phe Ala Arg Gly Pro Pro Ala Leu Thr His Ala Leu Leu Phe Cys Gly Cys Glu Gly Pro Ala Cys Ala Glu Arg Arg 110 100 Gln Thr Phe Ala Pro Ala Cys Ala Phe Ser Gly Pro Gln Leu Ala Pro

120

Pro Ser Cys Leu Lys Pro Leu Asp Arg Cys Glu Arg Ser Arg Arg Cys 130 135 140

Arg Pro Arg Leu Phe Ala Phe Gln Ala Ser Cys Ala Pro Ala Pro Gly
145 150 155 160

Ser Arg Asp Gly Cys Pro Glu Glu Gly Gly Pro Arg Cys Leu Arg Ala 165 170 175

Tyr Ala Gly Leu Val Gly Thr Val Val Thr Pro Asn Tyr Leu Asp Asn 180 185 190

Val Ser Ala Arg Val Ala Pro Trp Cys Gly Cys Glu Ala Ser Gly Asn 195 200 205

Arg Arg Glu Glu Cys Glu Ala Phe Arg Lys Leu Phe Thr Arg Asn Pro 210 215 220

Cys Leu Asp Gly Ala Ile Gln Ala Phe Asp Ser Ser Gln Pro Ser Val 225 230 235 240

Leu Gln Asp Gln Trp Asn Pro Tyr Gln Asn Ala Gly Cys Cys Phe Leu 245 250 255

Trp Val Ser Ser Met Ser Ile Leu Thr Ala Leu Ala Leu Gln Ala Leu 260 265 270

Leu

<210> 9

<211> 258

<212> PRT

<213> Rattus rattus

<400> 9

Met Leu Ser Gly Ala Tyr Leu Arg Val Leu Asn Glu Arg Pro Gly Gln
1 5 10 15

Ala Val Leu Trp Ser Leu Gly Cys Gln Arg Gly Ser Ala Ser Ser Thr 20 25 30

Glu Gly Asn Arg Cys Val Glu Ala Ala Glu Ala Cys Thr Ala Asp Glu 35 40 45

Gln Cys Gln Gln Leu Arg Ser Glu Tyr Val Ala Gln Cys Leu Gly Arg 50 55 60

Ala Gly Trp Arg Gly Pro Gly Ser Cys Val Arg Ser Arg Cys Arg Arg 65 70 75 80

Ala Leu Arg Arg Phe Phe Ala Arg Gly Pro Pro Ala Leu Thr His Ala 85 90 95

Leu Leu Phe Cys Gly Cys Glu Gly Pro Ala Cys Ala Glu Arg Arg Arg

			100					105					110			
Gln	Thr	Phe 115	Ala	Pro	Ala	Cys	Ala 120	Phe	Ser	Gly	Pro	Gln 125	Leu	Ala	Pro	
Pro	Ser 130	Cys	Leu	Lys	Pro	Leu 135	Asp	Arg	Cys	Glu	Arg 140	Ser	Arg	Arg	Cys	
Arg 145	Pro	Arg	Leu	Phe	Ala 150	Phe	Gln	Ala	Ser	Cys 155	Ala	Pro	Ala	Pro	Gly 160	
Ser	Arg	Asp	Gly	Cys 165	Pro	Glu	Glu	Gly	Gly 170	Pro	Arg	Cys	Leu	Arg 175	Ala	
Tyr	Ala	Gly	Leu 180	Val	Gly	Thr	Val	Val 185	Thr	Pro	Asn	Tyr	Leu 190	Asp	Asn	
Val	Ser	Ala 195	Arg	Val	Ala	Pro	Trp 200	Cys	Gly	Cys	Glu	Ala 205	Ser	Gly	Asn	
Arg	Arg 210	Glu	Glu	Сув	Glu	Ala 215	Phe	Arg	Lys	Leu	Phe 220	Thr	Arg	Asn	Pro	
Cys 225	Leu	Asp	Gly	Ala	Ile 230	Gln	Ala	Phe	Asp	Ser 235	Ser	Gln	Pro	Ser	Val 240	
Leu	Gln	Asp	Gln	Trp 245	Asn	Pro	Tyr	Gln	Asn 250	Ala	Gly	Gln	Ala	Lys 255	Val	
Glu	Ala															
	0> 1 1> 2															
<21	2> D	NA	icia	l Se	quen	ce										
<22	0>										_					
<22	3> D	escr	ipti	on o	f Ar	tifi	cial	Seq	uenc	e:PC	T pr	ımer				
	0> 1 gttg		gcgc	gtct	ac g											21
<21	0> 1	1														
<21	1> 2	0														
<212> DNA <213> Artificial Sequence																
<220> <223> Description of Artificial Sequence: PCR primer																
<400> 11 . cggcgcgaag aatgcgaagc										20						

<210> 12

<211> 23 <212> DNA	
<213> Artificial Sequence	
<220> <223> Description of Artificial Sequence:PCR primer	
<400> 12 cacccacgta ccatggcatg tgc	23
<210> 13	
<211> 22	
<212> DNA <213> Artificial Sequence	
22139 Altilitial bequence	
<220> <223> Description of Artificial Sequence:PCR primer	
<400> 13	
gtggtcaccc ccaactacct gg	22
<210> 14	
<211> 24 <212> DNA	
<213> Artificial Sequence	
<220> <223> Description of Artificial Sequence:PCR primer	
<400> 14	0.4
gccttccgca agctttttac aagg	24
210. 15	
<210> 15 <211> 22	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Description of Artificial Sequence:PCR primer	
<400> 15	0.0
gctcttctgc ggatgcgaag gc	22
210× 16	
<210> 16 <211> 24	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Description of Artificial Sequence: PCR primer	
<400> 16	24
agctgccggg tttactgatg ctac	

<210><211><212><212><213>	24	
<220> <223>	Description of Artificial Sequence: PCR primer	
<400> gatgct	17 actc tcccaaggtc aggc	24
<210><211><212><213>	27	
<220> <223>	Description of Artificial Sequence: PCR primer	
<400> ctggta	18 agct ttaaggcaga ggagacc	27
<210><211><212><213>	23	
<220> <223>	Description of Artificial Sequence: PCR primer	
<400> catggo	19 cagtc agctgtgttg tcc	23
<210><211><211><212><213>	24	
<220> <223>	Description of Artificial Sequence: PCR primer	
<400> cagct	20 gtgtt gtccatggtt cacc	24
<210><211><212><212><213>	30	
<220>	Description of Artificial Sequence: PCR primer	

<400> 21 tggttgcgag ctgtcaaagg cttgtatggc	30
<210> 22 <211> 30 <212> DNA <213> Artificial Sequence	
<220> <223> Description of Artificial Sequence: PCR primer	
<400> 22 ggggttcctt gtaaaaagct tgcggaaggc	30
<210> 23 <211> 25 <212> DNA <213> Artificial Sequence	
<220> <223> Description of Artificial Sequence: PCR primer	
<400> 23 ggtccaaggg cttcaggcag gaagg	25
<210> 24 <211> 22 <212> DNA <213> Artificial Sequence	
<220> <223> Description of Artificial Sequence: PCR primer	
<400> 24 gccttcgcat ccgcagaaga gc	22
<210> 25 <211> 23 <212> DNA <213> Artificial Sequence	
<220> <223> Description of Artificial Sequence: PCR primer	
<400> 25 ccaggtagtt gggggtgacc acg	23
<210> 26 <211> 20 <212> DNA <213> Artificial Sequence	

<220> <223>	Description of Artificial Sequence: PCR primer	
<400>	26	
cccago	gcatt gcgccacgta	20
<210>	27	
<211>		
<212>		
<213>	Artificial Sequence	
<220>		
	Description of Artificial Sequence: PCR primer	
<400>		22
cattgo	gcca cgtactcgga gc	22
<210>		
<211>		
<212>		
<213>	Artificial Sequence	
<220>		
<223>	Description of Artificial Sequence: PCR primer	
<400>	28	
	raggg caagggagtt tca	23
<210>	29	
<211>		
<212>		
	Artificial Sequence	
<220>	Description of Artificial Sequence: PCR primer	
~223/	bescription of Artificial Sequence.rek primer	
<400>		
gcaago	gagt ttcagttcag tgagc	25
<210>	30	
<211>	27	
<212>		
<213>	Artificial Sequence	
<220>	·	
<223>	Description of Artificial Sequence:PCR primer	
<400>	3.0	
	taat acgactcact atagggc	27
		-,

<210> 31

<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer

<400> 31

actcactata gggctcgagc ggc

23